



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Antimicrobials Division (7510P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

87857-3

Date of Issuance:

8/6/15

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

EXTRACIDE F14

Name and Address of Registrant (include ZIP Code):

Dalian Bio-Chem Company Limited  
c/o Delta Analytical Corporation  
12510 Prosperity Drive, Suite 160  
Silver Spring, MD 20904

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Julie Chao, Product Manager 33  
Regulatory Management Branch 1, Antimicrobials Division (7510P)

Date:

8/6/15

2. Be aware that proposed data requirements have been identified in a Final Work Plan. For more information on these proposed data requirements, you may contact the Reevaluation Team Leader (Team 36): <http://www2.epa.gov/pesticide-contacts/contacts-office-pesticide-programs-antimicrobial-division>
3. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 87857-3."
4. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated March 17, 2015

If you have any questions, please contact Zebora Johnson by phone at (703) 308-7080, or via email at [johnson.zebora@epa.gov](mailto:johnson.zebora@epa.gov)

Sincerely,



Julie Chao, Product Manager 33  
Regulatory Management Branch 1  
Antimicrobials Division (7510P)

Enclosure: Approved Stamped label

# EXTRACIDE F14

Industrial microbicide for use in Adhesives and Tackifiers, Air Conditioner/Refrigeration Condensate Water Systems, Air Washer Systems, Brewery Pasteurizer/Can Warmer/Retort Water Systems, Building Materials, Coal Slurry Systems, Commercial Photoprocessing Systems[\*], Dispersed Pigments[\*], Evaporative Condenser Water Systems, Fountain Solutions[\*], Hydrostatic Sterilizer Water Systems, Immersion Ultrasonic Tank Water[\*], Industrial Process Water Systems, Industrial Scrubbing Systems, Industrial Wastewater Treatment Systems[\*], Influent Water Filtration Systems, Ink/Ink Components[\*], Laboratory Equipment Water Baths[\*], Metalworking Fluids, Metal Cleaning Fluids, Oil Field Injection Waters, Paints and Coatings, Paint Spray Booth Systems, Papermill Slime Control[\*], Polymer Latices, Photoplate Processing[\*], Recirculating Closed Loop Water Cooling Systems, Recirculating Electrodeposition Systems, Recirculating Water Cooling Towers, Reverse Osmosis and Ultra Filtration Systems, Sewage Systems[\*], Water Based Hydraulic Fluid, Aqueous Compositions[\*], Liquid and Semi-solid/Solid Household, Consumer, Industrial, and Janitorial Products, and Wood and Wood Products.

**ACTIVE INGREDIENTS:**

5-Chloro-2-methyl-4-isothiazolin-3-one .....	10.75%
2-Methyl-4-isothiazolin-3-one .....	3.60%
<b>OTHER INGREDIENTS:</b> .....	<b>85.65%</b>
<b>TOTAL:</b> .....	<b>100.00%</b>

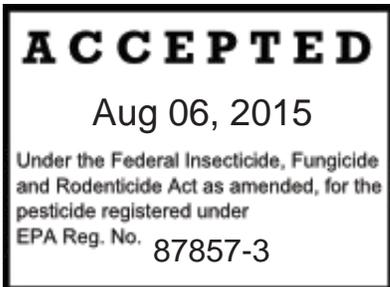
**KEEP OUT OF REACH OF CHILDREN  
DANGER**

<b>FIRST AID</b>	
<b>IF ON SKIN:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 min.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 min.</li> <li>• Remove contact lenses, if present, after first 5 min. then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Have person sip a glass of water if able to swallow. Do not give anything to an unconscious person.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency, call poison control center at 1-800-222-1222 for treatment advice.</p>	
<p><b>NOTE TO PHYSICIAN:</b> Probable mucosal damage may contraindicate the use of gastric lavage. Measure against circulatory shock, respiratory depression and convulsions may be necessary.</p>	

**SEE SIDE PANELS FOR ADDITIONAL PRECAUTIONARY STATEMENTS.**

EPA Reg. No.: 87857-

EPA Est. No.: 87857-CHN-xx



Manufactured by: Dalian Bio-Chem Company Limited  
11F, Anda Business Mansion, No. 32 Wuwu Road  
Zhongshan District, Dalian, China

**NET CONTENTS:**

## **PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER.** CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE AND SKIN BURNS. MAY BE FATAL IF ABSORBED THROUGH THE SKIN OR SWALLOWED. MAY CAUSE ALLERGIC SKIN REACTION. HARMFUL IF INHALED. Do not get in eyes, on skin, or on clothing. Mixers, loaders and others exposed to this product must wear long-sleeved shirt and long pants; chemical resistant gloves such as nitrile or butyl rubber; shoes plus socks; goggles and face shield; and chemical resistant apron. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment (PPE). If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly. This product may cause skin sensitization reaction in some people.

### **PHYSICAL OR CHEMICAL HAZARDS**

This product is corrosive to mild steel. This product as supplied evolves gas (largely carbon dioxide) slowly. To prevent buildup of pressure, the product is packaged in specially vented containers. Keep this product in the original containers when not in use. Container must be stored and transported in an upright position to prevent spilling the contents through the vent.

### **ENVIRONMENTAL HAZARDS**

This chemical is toxic to aquatic plants, fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer system without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. Do not contaminate water by cleaning of equipment or disposal of waste. Apply this pesticide only as specified on this label.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**[READ AND FOLLOW THE DIRECTIONS FOR USE ON THE ACCOMPANYING INFORMATION SHEET.]**

#### **ADHESIVE AND TACKIFIER PRESERVATION**

Use EXTRACIDE F14 microbicide as an in container preservative for the control of bacteria and fungi in water soluble and water dispersed adhesives such as animal glues, vegetable glues, natural rubber lattices, polyvinyl acetate, styrene butadiene, and acrylic lattices. Use EXTRACIDE F14 as a preservative for tackifiers derived from rosin and hydrocarbon resins. Add 0.044 - 0.177 pounds of EXTRACIDE F14 (20 - 80 grams) to each 1000 pounds (454 kilograms) of fluid to provide 44 - 177 ppm EXTRACIDE F14.

#### **AIR WASHER SYSTEMS / PAINT SPRAY BOOTHS**

For use only in industrial air washing systems that maintain effective mist eliminating components. Add to the air washer sump, chill water sump or paint spray booth to ensure uniform mixing, 3.9 - 98 ppm EXTRACIDE F14 microbicide (0.03 - 0.83 pounds or 0.5 - 12.6 fluid ounces of EXTRACIDE F14 per

1000 gallons of water in the system) depending upon the severity of contamination to control microbial biofilms, bacteria, fungi, and algae which cause fouling in industrial air washer systems and paint spray booths.

#### **INTERMITTENT OR SLUG METHOD**

**INITIAL DOSE:** When the system is noticeably fouled, apply 25 - 68 ppm EXTRACIDE F14 microbicide (0.26 - 0.71 pounds or 3.2 - 8.7 fluid ounces of EXTRACIDE F14 per 1000 gallons of water in the system). Repeat until control is achieved.

**SUBSEQUENT DOSE:** When microbial control is evident, add 12 - 18 ppm EXTRACIDE F14 microbicide (0.12 - 0.20 pounds or 1.5 - 2.3 fluid ounces of EXTRACIDE F14 per 1000 gallons of water) in the system weekly or as needed to maintain control. Clean badly fouled systems before treatment is begun.

#### **CONTINUOUS FEED METHOD**

**INITIAL DOSE:** When the system is noticeably fouled, apply 25 - 68 ppm EXTRACIDE F14 microbicide (0.26 - 0.71 pounds or 3.2 - 8.7 fluid ounces of EXTRACIDE F14 per 1000 gallons of water in the system.)

**SUBSEQUENT DOSE:** Maintain this treatment level by adding a continuous feed of 12 - 18 ppm EXTRACIDE F14 microbicide (0.12 - 0.20 pounds or 1.5 - 2.3 fluid ounces of EXTRACIDE F14 per 1000 gallons of makeup water). Clean badly fouled systems before treatment is begun.

#### **AQUEOUS COMPOSITIONS [\*]**

Use EXTRACIDE F14 microbicide as an in-container preservative for the control of bacteria and fungi in aqueous products such as: fiberglass sizing solutions and aqueous emulsions and dispersions including surfactants, stabilized oil/water emulsions, surface preparation compounds, foam control products, nutrient solutions and pesticide formulations. Add 0.05 - 0.35 pounds of EXTRACIDE F14 (23 - 159 grams) per 1000 pounds (454 kilograms) of aqueous product to provide 50 - 350 ppm EXTRACIDE F14.

#### **BUILDING MATERIAL PRESERVATION**

Use EXTRACIDE F14 microbicide as an in-container preservative for the control of bacteria and fungi in building materials such as mastics, caulks, joint cements, concrete admixtures, spackling and grouting. Add 0.044 - 0.177 pounds (20 - 80 grams) of EXTRACIDE F14 to each 1000 pounds (454 kilograms) of fluid to provide 44 - 177 ppm EXTRACIDE F14.

#### **DISPERSED PIGMENT PRESERVATION [\*]**

Use EXTRACIDE F14 microbicide as an in-container preservative for the control of microbial biofilms, bacteria and fungi in the manufacture and storage of dispersed pigments such as kaolin and montmorillonite clays, titanium dioxide, calcium carbonate, calcium sulfate, barium sulfate, magnesium silicate, and kieselguhr used in paint and paper productions. Add 0.044 - 0.177 pounds of EXTRACIDE F14 (20 - 80 grams) to each 1000 pounds (454 kilograms) of fluid to provide 44 - 177 ppm EXTRACIDE F14.

#### **ELECTRODEPOSITION SYSTEMS**

Use EXTRACIDE F14 microbicide as a tankside additive for the control of microbial biofilms, bacteria, fungi, and algae in recirculating electrodeposition systems and associated rinse systems. Alternatively, EXTRACIDE F14 may be added through the components of the electrodeposition paint prior to their addition to the electrodeposition system.

#### **TANKSIDE ADDITION TO ELECTRODEPOSITION SYSTEMS:**

Dispense EXTRACIDE F14 microbicide into the recirculating rinse system, ultra-filter permeate, or final distilled rinse system at a point to insure uniform mixing.

**INITIAL DOSE:** When the system is noticeably fouled, add 74 - 259 ppm EXTRACIDE F14 (0.7 - 2.6 gallons per 10,000 gallons of fluid in the system). This will provide 1.1 - 3.9 ppm of active ingredient. Repeat until control is achieved.

**SUBSEQUENT DOSE:** When microbial control is evident, add 37 - 111 ppm EXTRACIDE F14 (0.37 - 1.1 gallons per 10,000 gallons of fluid in the system). This will provide 0.6 - 1.7 ppm of active ingredient. A change of frequency of treatment may be required depending on the rate of dilution of the preservative with the makeup fluid, the nature and severity of contamination, level of control required, filtration effectiveness and system design.

## **ELECTRODEPOSITION PAINT COMPONENTS**

### **INITIAL DOSE OF PAINT COMPONENTS**

Add EXTRACIDE F14 microbicide to the resin, pigment, or other component of the electrodeposition paint at a level to ensure that the final use-dilution fluid will contain 37 - 259 ppm product.

### **SUPPLEMENTAL TANKSIDE DOSING OF ELECTRODEPOSITION SYSTEMS**

If additional microbial control is necessary, EXTRACIDE F14 may be added to the electrodeposition system tankside to supplement the microbicide incorporated through paint components.

**INITIAL DOSE:** If the system becomes noticeably fouled, add 74 - 259 ppm EXTRACIDE F14 (0.7 - 2.6 gallons per 10,000 gallons of fluid in the system). Repeat until control is achieved.

**SUBSEQUENT DOSE:** When microbial control is evident, add 37 - 111 ppm EXTRACIDE F14 (0.37 - 1.1 gallons per 10,000 gallons of fluid in the system) weekly or as needed.

**NOTE:** Regardless of the manner of incorporation, the total product concentration must at no time exceed 259 ppm EXTRACIDE F14 or 2.6 gallons per 10,000 gallons system fluid.

## **INDUSTRIAL RECIRCULATING CLOSED LOOP WATER COOLING SYSTEMS**

To maintain control of bacteria, fungi and algae. Add 3.7 - 23 ppm (0.032 - 0.196 pounds) of EXTRACIDE F14 microbicide (15 - 89 grams) per 1000 gallons of water in the reservoir, recirculating line or some other point to ensure uniform mixing.

For noticeably fouled systems an initial treatment with 0.13 - 0.79 pounds (59 - 358 grams) EXTRACIDE F14 per 1000 gallons of water may be needed depending on the severity of the fouling.

## **INDUSTRIAL RECIRCULATING WATER COOLING TOWERS**

For the control of bacteria, algae, and fungi add EXTRACIDE F14 microbicide to the tower basin, distribution box, or some other point to ensure uniform mixing.

**INITIAL DOSE:** When the system is noticeably fouled, apply 25-68 ppm EXTRACIDE F14 (0.27 - 0.73 pounds or 3.2 - 8.7 fluid ounces of EXTRACIDE F14 per 1000 gallons of water in the system). Repeat until control is achieved.

**SUBSEQUENT DOSE:** When microbial control is evident, add 12-18 ppm EXTRACIDE F14 (0.13-0.19 pounds or 1.5-2.3 fluid ounce of EXTRACIDE F14 per 1000 gallons of water in the system) weekly or as needed to maintain control. Clean badly fouled systems before treatment is begun.

## **INDUSTRIAL WASTEWATER TREATMENT SYSTEMS AND SEWAGE SYSTEMS [\*]**

Use EXTRACIDE F14 microbicide for the control of microbial biofilms, bacteria, fungi, and algae in industrial wastewater treatment and sewage systems. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority.

**INITIAL DOSE:** When the system is noticeably fouled, apply 0.13 - 0.78 pounds or 2 - 12 fluid ounces per 1000 gallons of water in the system (15.5 to 93 ppm EXTRACIDE F14). Repeat until control is achieved.

Clean badly fouled systems before treatment is begun. SUBSEQUENT DOSE: When microbial control is evident, add 4 - 25 ppm EXTRACIDE F14 (0.03 - 0.21 pounds or 0.5 - 3 fluid ounces of EXTRACIDE F14 per 1000 gallons of water in the system) weekly or as needed to maintain control.

### **LIQUID HOUSEHOLD, CONSUMER, INDUSTRIAL, JANITORIAL PRODUCTS**

For the control of bacteria and fungi in liquid soaps, liquid cleaners, liquid detergents, liquid laundry products, liquid dishwashing detergents, waxes, polishes, liquid fabric treatment/refresher products, liquid air fresheners/deodorizers, car care products, and other similar cleaners. EXTRACIDE F14 microbicide may also be used for the control of bacteria and fungi in package utility products such as pre-moistened sponges and mops. EXTRACIDE F14 may also be used from the control of bacteria and fungi in solutions that are then put into/onto wet wipes for use in industrial, commercial, residential and household uses cited above.

Add 0.04 –0.16 pounds of EXTRACIDE F14 (18 – 73 grams) to each 1000 pounds (454 kilograms) of product to be treated to provide 40 – 160 ppm EXTRACIDE F14. To ensure uniform mixing, slowly disperse EXTRACIDE F14 into product with agitation.

#### **CONCENTRATES:**

EXTRACIDE F14 microbicide may be added to those products formulated as concentrates which are in turn diluted for use at a level to ensure that the final use-dilution product will contain between 40 to 160 ppm EXTRACIDE F14 microbicide. Add 0.04 - 0.16 pounds (18 – 73 grams) per 1000 pounds (454 kilograms) of product.

Wet wipes containing a solution preserved with this product may not be used for personal care, as baby wipes, or for food contact.

### **METAL WORKING FLUID PRESERVATION**

Use EXTRACIDE F14 microbicide for the control of bacteria and fungi in soluble and emulsifiable-type aqueous metalworking fluids. For the maintenance of a non-fouled system, use EXTRACIDE F14 at 2.7 - 12.8 fluid ounces (0.23 – 1.1 pounds) per 1000 gallon of emulsion every 4-12 weeks to provide 26-125 ppm product. For a noticeably fouled system, use an initial dose of 5.4 - 12.8 fluid ounces (0.46 - 1.1 pounds) per 1000 gallons of emulsion to provide 53 - 125 ppm product to be followed by subsequent maintenance dosages depending upon the treatment interval noted above. Increased frequency of treatment may be required depending upon rate of dilution of the preservative with makeup fluid, the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc. The preservative should be dispensed as an additive into the circulating use dilution of the metalworking fluid using a metering pump or by manual pouring and uniformly dispersed throughout the system.

### **METAL CLEANING FLUID PRESERVATION**

Use EXTRACIDE F14 microbicide as a preservative for use in the manufacture and use of alkaline, acid and emulsion-based metal cleaning fluids typically used in electroplating, phosphatizing, galvanizing and general metal cleaning operations. For addition to a metal cleaning concentrate, add EXTRACIDE F14 at a level to ensure that the final use dilution fluid will contain 44 - 177 ppm product. For direct addition to a fouled system, add 5.6 – 22.6 fluid ounces (0.48 - 1.9 pounds) of EXTRACIDE F14 to each 1000 gallons of use dilution metal cleaning fluid every 3 to 4 weeks to provide 44 – 177 ppm product. Increased frequency of treatment may be required depending upon rate of dilution of the preservative with make-up fluid, the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc. The preservative should be dispensed as an additive into the circulating use dilution of the metal cleaning fluid using a metering pump or by manual pouring and uniformly dispersed throughout the system.

## **OIL FIELD INJECTION WATERS**

For the control of microbial biofilm-forming and sulfate-reducing bacteria in oil and gas field water systems, including enhanced recovery injection fluids, drilling, fracturing and completion fluids, slug treat with 7 - 36 ppm EXTRACIDE F14 microbicide depending on the severity of contamination. This product may be used for terrestrial and off-shore oil drilling muds and packer fluids.

**INITIAL DOSE:** Add 14 - 28 ppm EXTRACIDE F14 (0.57 - 1.2 gallons or 6.2 - 12.5 pounds EXTRACIDE F14 per 1000 barrels of water) at a point in the system where it will be uniformly mixed. Repeat treatment after three days or as needed until control is achieved.

**SUBSEQUENT DOSE:** Add 5.5 - 14 ppm EXTRACIDE F14 (0.22 - 1.2 gallons or 2.4 - 6.2 pounds EXTRACIDE F14 per 1000 barrels of water) every seven days or as needed to maintain control.

## **PAINT AND COATING PRESERVATION**

Use EXTRACIDE F14 microbicide as an in-container preservative for the control of bacteria and fungi in water-based coatings such as paper and wood coatings and paints used for architectural product finishes and special purpose coatings. Add 0.044 - 0.177 pounds (20 - 80 grams) of EXTRACIDE F14 to each 1000 pounds (454 kilograms) of fluid to provide 44 - 177 ppm EXTRACIDE F14.

## **PHOTOPROCESSING SYSTEM PRESERVATION [\*]**

EXTRACIDE F14 microbicide prevents slime formation or accumulation in filters and ion exchange resin tanks of commercial photoprocessing systems. For the maintenance of a non fouled system, use EXTRACIDE F14 at 2.7 - 5.5 fluid ounces (0.23 - 0.46 pounds) per 1000 gallons fluid every 8 weeks. For a noticeably fouled system, use an initial dose of 5.5 - 13.6 fluid ounces (0.46 - 1.15 pounds) per 1000 gallons fluid to be followed by subsequent maintenance dosage. Increased frequency of treatment may be required depending on rate of dilution of the preservative with makeup fluid, the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc. The preservative should be dispensed into the final rinse or used water collection tank.

## **PHOTOPLATE PROCESSING, FOUNTAIN SOLUTIONS AND INK/INK COMPONENTS [\*]**

Use EXTRACIDE F14 microbicide for the control of bacteria and fungi in photoplate processing chemicals, fountain solutions, and printing inks and ink components. Add EXTRACIDE F14 to achieve 0.01 - 0.035% (100 - 350 ppm product). Add EXTRACIDE F14 to fountain solution concentrates at a level to ensure that the final use dilution of the product will contain 0.035% EXTRACIDE F14 (350 ppm product). To ensure uniform mixing, add EXTRACIDE F14 to latex or solution slowly with agitation. The actual concentrations required will depend upon such factors as the specific substance to be treated, frequency of repeated microbial contamination expected and level of protection required.

## **POLYMER LATEX PRESERVATION**

Use EXTRACIDE F14 microbicide for the control of bacteria and fungi in the manufacture and storage of synthetic and natural polymer latices including: acrylic, styrene/butadiene, carboxylated styrene/butadiene, ethylene/vinyl acetate; biopolymers intended for industrial use, such as a xanthan gum, gum arabic, guar gum, protein-derived polymers, starches, casein-derived polymer lattices; and solution polymers. Add 0.044 - 0.355 pounds of EXTRACIDE F14 (20 - 161 grams) to each 1000 pounds (454 kilograms) of fluid/emulsion to provide 44 - 355 ppm product.

**NOTE:** To ensure uniform mixing, add EXTRACIDE F14 to latex or solutions slowly with agitation. The actual required concentrations will depend upon such factors as the specific substance to be treated, frequency of repeated microbial contamination expected, and level of production required.

## **PULP AND PAPER MILLS [\*]**

For the control of bacterial and fungal slime in the production of paper. Add EXTRACIDE F14 microbicide to the Beater, Hydropulper, or Fan or Broke Storage Pumps or some other point in the system to ensure uniform mixing. Apply 0.048 to 0.16 pound of EXTRACIDE F14 per ton (dry basis) of pulp or paper produced as a slug dose. If needed, repeat daily. Clean badly fouled systems before initial treatment.

## **SEMI-SOLID/SOLID HOUSEHOLD, CONSUMER, INDUSTRIAL, JANITORIAL PRODUCTS**

For the control of bacteria and fungi in semi-solid/solid soaps, semi-solid/solid cleaners, semi-solid/solid detergents, semi-solid/solid laundry products, semisolid/solid dishwashing detergents, waxes, polishes, semi-solid/solid fabric treatment/refreshers products, semi-solid/solid air fresheners/deodorizers, car care products, and other similar cleaners. EXTRACIDE F14 microbicide may also be used for the control of bacteria and fungi in package utility products such as premoistened sponges and mops. EXTRACIDE F14 may also be used for the control of bacteria and fungi in solutions that are then put into/onto wet wipes for use in industrial, commercial, residential and household uses cited above.

Add 0.04 – 0.16 pounds of EXTRACIDE F14 (18 – 73 grams) to each 1000 pounds (454 kilograms) of product to be treated to provide 40 – 160 ppm EXTRACIDE F14. To ensure uniform mixing, slowly disperse EXTRACIDE F14 into product with agitation.

### **CONCENTRATES:**

EXTRACIDE F14 microbicide may be added to those products formulated as concentrates which are in turn diluted for use at a level to ensure that the final use-dilution product will contain between 40 to 160 ppm. Add EXTRACIDE F14 microbicide 0.04 - 0.16 pounds per 1000 pounds (454 kilograms) product. To ensure uniform distribution, slowly disperse EXTRACIDE F150 into product with agitation. Mix thoroughly until evenly dispersed throughout product.

Wet wipes containing a solution preserved with this product may not be used for personal care, as baby wipes, or for food contact!

## **ULTRA FILTRATION UNITS AND NON-MEDICAL/NON-POTABLE REVERSE OSMOSIS SYSTEMS**

Use EXTRACIDE F14 microbicide for the control of microbial biofilms, bacteria and fungi in ultra filtration units and nonmedical/non-potable reverse osmosis systems. Use of EXTRACIDE F14 in potable water or dialysis is prohibited. Add 1.1 - 37 ppm of EXTRACIDE F14 into industrial ultra filtration or reverse osmosis systems by either continuous feed or periodic injection. Compatibility of EXTRACIDE F14 with reverse osmosis membranes should be confirmed with membrane manufacturers.

For the control of bacteria and fungi in carbon beds, add 1.1 - 37 ppm of EXTRACIDE F14 by either continuous or batch feed.

For periodic membrane cleaning, add 0.04 - 0.10 pounds of EXTRACIDE F14 to every 120 gallons of cleaning solution. Clean badly fouled systems before treatment is begun.

## **WATER BASED HYDRAULIC FLUID PRESERVATION**

Use EXTRACIDE F14 microbicide as a preservative in the manufacture and use of high water based hydraulic fluids and invert emulsion hydraulic fluids typically prepared by emulsifying 40% by volume water in 60% by volume of mineral oil using an oil soluble emulsifying agent. For the maintenance of a non-fouled system, use EXTRACIDE F14 at 9 - 13 fluid ounces (0.76 - 1.1 pounds) per 1000 gallons fluid every 8 weeks. For a noticeably fouled system, use an initial dose of 13 - 20 fluid ounces (1.1 - 1.7 pounds) per 1000 gallons fluid to be followed by subsequent maintenance dosage. Increased frequency of treatment may be required depending upon rate of dilution of the preservative with makeup fluid, the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc.

The preservative should be dispensed as an additive into the circulating use dilution of the hydraulic fluid using a metering pump or my manual pouring and uniformly dispersed throughout the system.

### **WATER SYSTEMS**

For the control of microbial biofilms, bacteria, fungi and algae, add EXTRACIDE F14 microbicide to air conditioner/refrigeration condensate water systems, brewery pasteurizers, can warmers, coal slurry systems, evaporative condenser water systems, hydrostatic sterilizer water systems, immersive ultrasonic tank water[\*], industrial scrubbing systems, influent water filtration systems, laboratory equipment water baths[\*], retort water systems, and industrial process water systems. Add EXTRACIDE F14 at some point in the system to ensure uniform mixing.

**INITIAL DOSE:** When the system is noticeably fouled, apply 16 - 98 ppm EXTRACIDE F14 (0.14 - 0.83 pounds or 2 - 13 fluid ounces of EXTRACIDE F14 per 1000 gallons of water in the system). Repeat until control is achieved. Clean badly fouled systems before treatment is begun.

**SUBSEQUENT DOSE:** When microbial control is evident, add 4 - 24 ppm EXTRACIDE F14 (0.03 - 0.21 pounds or 0.5 - 3 fluid ounces of EXTRACIDE F14 per 1000 gallons of water in the system) weekly or as needed to maintain control.

### **WOOD AND WOOD PRODUCTS**

Use EXTRACIDE F14 for the protection of wood and wood products, such as landscape timbers, fences, posts, pilings, cross ties, decks, and similar exterior structures from mold and mildew. Treat southern yellow pine, hemlock, ponderosa pine, and other soft woods with 21 - 68 ppm EXTRACIDE F14 microbicide (0.23 - 0.73 pounds or 2.7 - 8.7 fluid ounces of EXTRACIDE F14 per 1000 gallons) as an aqueous dip or pressure treatment for mold and mildew control. Under extreme mildew conditions, treat with 170 - 340 ppm EXTRACIDE F14 (1.9 - 3.7 pounds or 22 - 44 fluid ounces) per 1000 gallons of wood treatment solution. May be used at higher concentrations so long as the end use product/article does not exceed a maximum concentration of 343 ppm EXTRACIDE F14. Thoroughly wet and allow to dry. A single application will afford protection for 12 weeks.

For spray treatment only; a negative-pressure spray box equipped with effective mist elimination may be used. Application rates will vary according to wood species and moisture content, temperature, humidity, storage conditions and inoculum pressure. Ensure that the treatment conditions are such that the wood articles are uniformly covered with the treating solution. Monitor spray booth mixtures to ensure proper concentrations are being maintained.

### **STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage, disposal or cleaning of equipment.

#### **PESTICIDE STORAGE**

Keep this product in the original container when not in use. Container must be stored and transported in an upright position to prevent spilling the contents.

#### **PESTICIDE DISPOSAL**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### **CONTAINER HANDLING**

*[Use the following for product sold in nonrefillable containers:]*

**Nonrefillable container.** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available, or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill or by incineration.

*[Use the following for product sold in refillable containers:]*

**Refillable container.** Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer container for recycling if available, or reconditioning if appropriate, or puncture and dispose of in sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

## **CONDITIONS OF SALE AND WARRANTY**

Dalian Bio-Chem Company Limited warrants that this product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions as defined under the Directions for Use on this label. To the extent consistent with applicable law, Dalian Bio-Chem Company Limited makes no other express or implied warranties, either of merchantability or fitness, for a particular use. Handling, storage, and use of the product by Buyer or User are beyond the control of Dalian Bio-Chem Company Limited and Seller. Risks such as ineffectiveness or other unintended consequences resulting from, but not limited to, failure to follow directions will be assumed by the Buyer or User. To the extent permitted by law, neither Dalian Bio-Chem Company Limited nor Seller shall be liable for consequential, special, or indirect damages resulting from the use, handling, application, storage, or disposal of this product.

[Batch code]

[\*] Not For Use in the State Of California

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